```java
public class Student {
    2 usages
    String name;
    2 usages
    int age;

    public void introduceYourSelf() {
        System.out.println("My name is " + name + " age is " + age);
    }

}

public class StudentClient {
    public static void main(String args[]) {

        System.out.println("Hello Akarsh");
        Student s = new Student();

        System.out.println(s.age);
        System.out.println(s.name);

    }
}
```
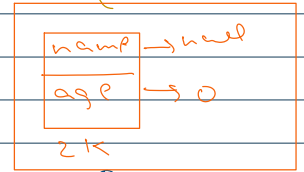
JVM

reference variable
↓
stores memory address of object

s : 2K

call stack

Blueprint
Student
name
age

name → null
age → 0
2K
Heap memory

Hello Akarsh
0
null
console

Access modifiers in Java
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public ⟶ accessible in all classes.
private ⟶ accessible within the declared class.
default ⟶ within the same package
(no modifier)
protected ⟶ accessible within the same package & subclasses.

Encapsulation
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wrapping of data and code together